IT-B9

SERVICE MANUAL

Canadian Model
E Model

Photo : Gray type

SPECIFICATIONS

Dial signal	Tone, 10 PPS (pulse) selectable
Dimensions	Approx. 165.5 × 84 × 219 mm (w/h/d) (Approx. 6 5/8 × 3 3/8 × 8 5/8 inches)
Mass	Approx. 530 g (Approx. 1 lb. 3 oz.)
Supplied accessories	Telephone line cords (2) (Canadian) Telephone line cord (1) (E) Wall bracket (1) (Canadian)

Design and specifications are subject to change without notice.

Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

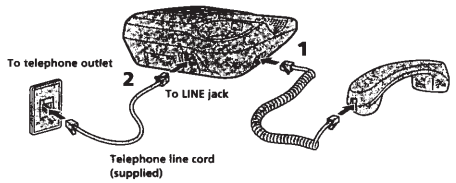
TELEPHONE

MICROFILM

SONY®

Setting up the phone

Connect the phone



1 Connect the handset to the phone.

2 Plug one end of the telephone line cord (supplied) into the LINE jack, and the other end into a telephone outlet.

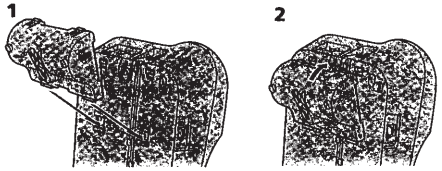
3 Attach the telephone line cord in the groove.

Tip
If your telephone outlet is not modular, contact your telephone service company for assistance.

Modular

Tilt the phone

If you want to tilt the phone, attach the supplied wall bracket on the upper part of the bottom of the phone.



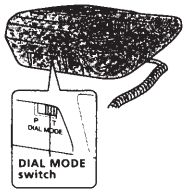
1 Align the ▽ marks on the wall bracket with the center holes, and insert the tabs into the center holes.

2 Push the bracket toward the phone.

Tips
- To remove the wall bracket, press the upper tabs.
- If you want to hang the phone on the wall, see "Mounting the phone on a wall".

Choose the dialing mode

For the phone to work properly, select an appropriate dialing mode (tone or pulse).



Depending on your dialing system, set the DIAL MODE switch as follows:

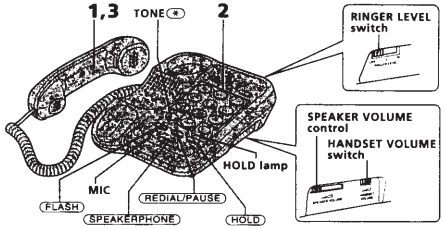
If your dialing system is	Set the switch to
Tone	T
Pulse	P

If you aren't sure of your dialing system

Make a trial call with the DIAL MODE switch set to T. If the call connects, leave the switch as is; otherwise, set to P.

Making and receiving calls

Making a call



1 Pick up the handset (or press SPEAKERPHONE).
You hear a dial tone.

2 Dial a phone number.

3 When you're done talking, place the handset in the cradle (or press SPEAKERPHONE again).
The call is disconnected.

Receiving a call

When you hear the phone ring, pick up the handset (or press SPEAKERPHONE). When you're done talking, place the handset in the cradle (or press SPEAKERPHONE again).

Tip
You can switch to speakerphone during conversation by pressing SPEAKERPHONE. You can put the handset in the cradle.
To switch back to the handset, pick up the handset again.

Additional tasks

To	Do this
Adjust the ringer level	Set the RINGER LEVEL switch to H (High), L (Low) or OFF.
Adjust the handset volume	During phone conversations, set the HANDSET VOLUME switch. You can select the volume level from three level positions.
Adjust the speaker volume	Slide the SPEAKER VOLUME control.
Switch to tone dialing temporarily	Press TONE (*) after you're connected. The line will remain in tone dialing until disconnected.
Switch to another call ("call waiting" service*)	Press FLASH. Press FLASH again to get back to the first caller.

* Contact your telephone company to subscribe to this service.

To obtain the best speakerphone performance

- Do not bring your hand or other objects too close to MIC (microphone) or you will hear a shrill noise ("feedback")
- When the speaker volume is loud, or the phone has been placed close to a wall, you may find that the volume drops suddenly. This is due to a circuit in the phone designed to protect against feedback. In such cases, lower the speaker volume slightly.

Redialing

You can redial the last number called with just one touch of the REDIAL/PAUSE button. This lets you easily redial the same number again if, for example, the line was busy.

1 Pick up the handset (or press SPEAKERPHONE).
You hear a dial tone.

2 Press REDIAL/PAUSE to redial the number last dialed.

Note
You can redial the number which consists of up to 32 digits, including a press of tone or pause, each of which is counted as one digit.

Putting a call on hold

1 During phone conversation, press HOLD.
The HOLD lamp flashes.
You can place the handset back in the cradle.

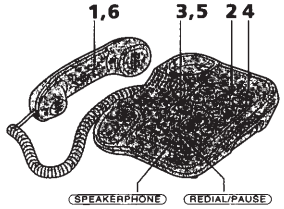
2 To resume conversation, pick up the handset (or press SPEAKERPHONE).
If you didn't place the handset back in the cradle, press HOLD or SPEAKERPHONE.

Tip
If you pick up another phone connected to the same phone line, the hold will be automatically released and you will be able to resume conversation on that phone.

Speed dialing

You can dial with a touch of a few keys by storing a phone number on a dialing key. You can store up to 10 speed dialing numbers.

Storing phone numbers



1 Pick up the handset.

2 Press PGM.

3 Enter the phone number you want to store.
You can enter up to 16 digits, including a press of tone or pause, each of which is counted as one digit.

4 Press SPEED DIAL.

5 Press one of the dialing keys (0 to 9) to store a phone number on.

6 Place the handset back in the cradle.

Note
Do not allow more than 20 seconds to elapse between each step of the procedure.

To store a number to be dialed via Private Branch Exchange (PBX)

Before entering a phone number in Step 3, do as follows:

1 Enter the outside line access digit (e.g., 9).

2 Press REDIAL/PAUSE.

To change a stored number

Store a new number, as described previously.

Making calls with speed dialing

1 Pick up the handset (or press SPEAKERPHONE).

2 Press SPEED DIAL.

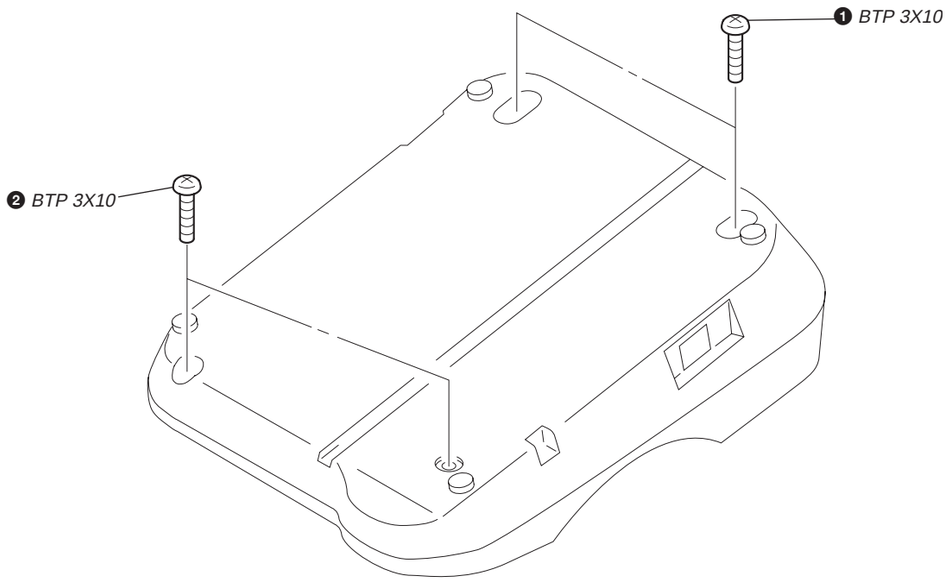
3 Enter the desired speed dialing number (0 to 9).
The phone number stored in the speed dialing number will be dialed.

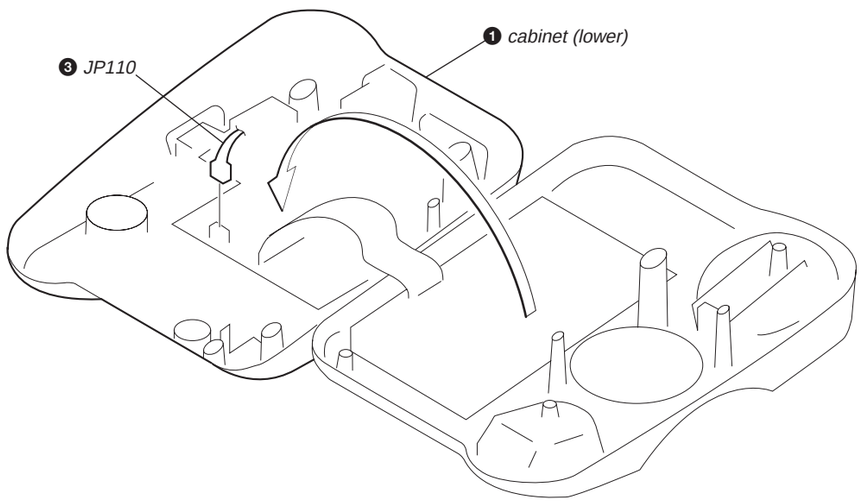
This section is extracted from instruction manual.

SECTION 2
DISASSEMBLY

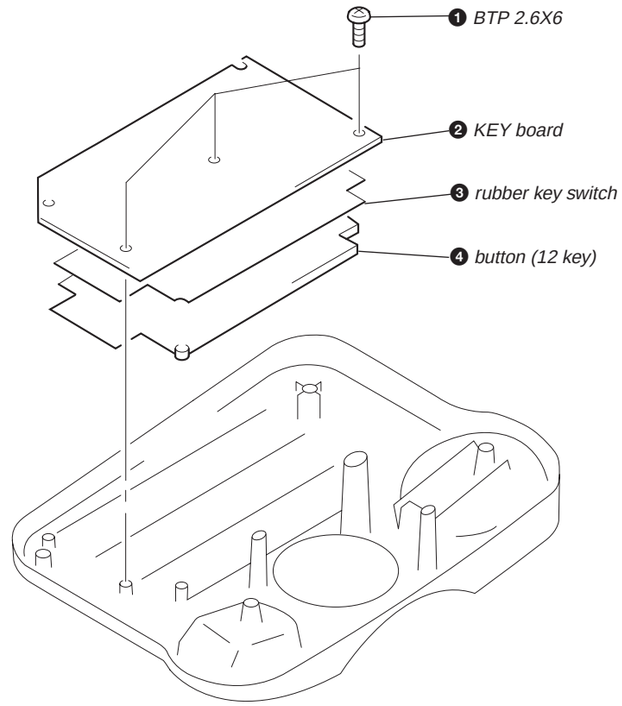
Note : Follow the disassembly procedure in the numerical order given.

2-1. CABINET (LOWER)

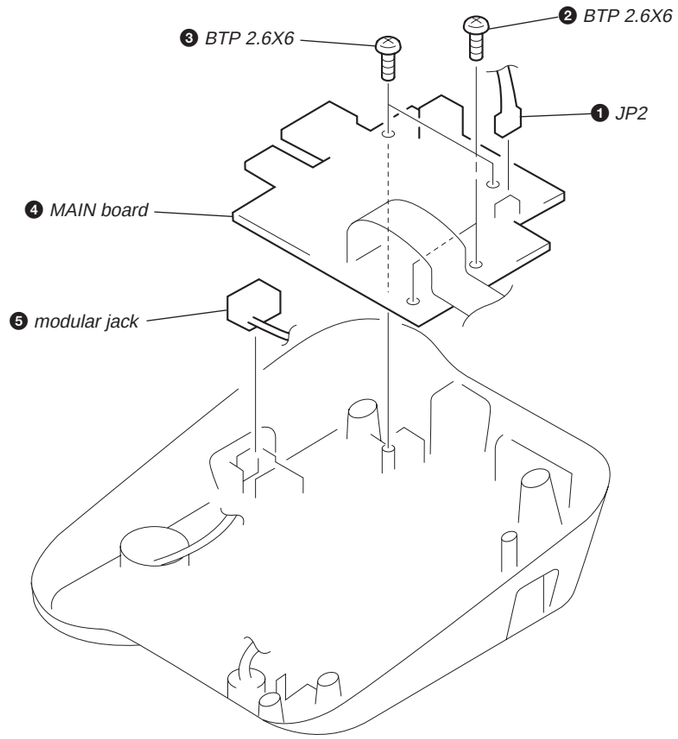




2-2. KEY BOARD



2-3. MAIN BOARD



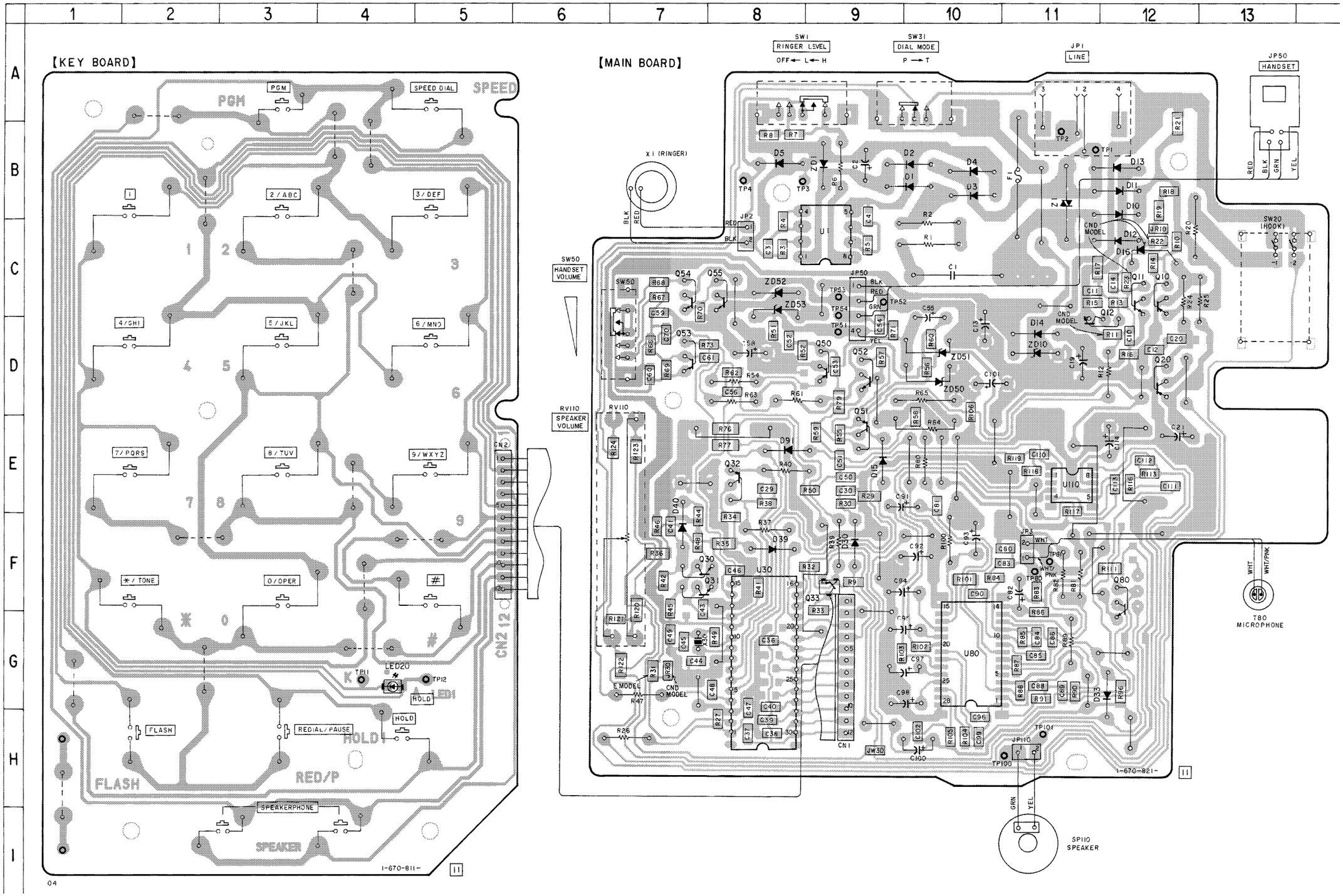
SECTION 3
DIAGRAMS

3-1. PRINTED WIRING BOARDS

- **Semiconductor Location**

Ref. No.	Location
D1	B-9
D2	B-9
D3	B-10
D4	B-10
D5	B-8
D10	B-12
D11	B-12
D12	C-12
D13	B-12
D14	D-11
D15	E-9
(D16)	C-12
D30	F-9
D33	G-12
D39	F-8
D40	E-7
D91	E-8
LED20	G-4
Q10	C-12
Q11	C-12
Q12	C-11
Q20	D-12
Q30	F-7
Q31	F-7
Q32	E-8
Q33	F-9
Q50	D-9
Q51	E-9
Q52	D-9
Q53	D-7
Q54	C-7
Q55	C-8
Q80	F-12
U1	C-9
U30	F-8
U80	G-10
U110	E-11
ZD1	B-9
ZD10	D-11
ZD50	D-10
ZD51	D-10
ZD52	C-8
ZD53	C-8

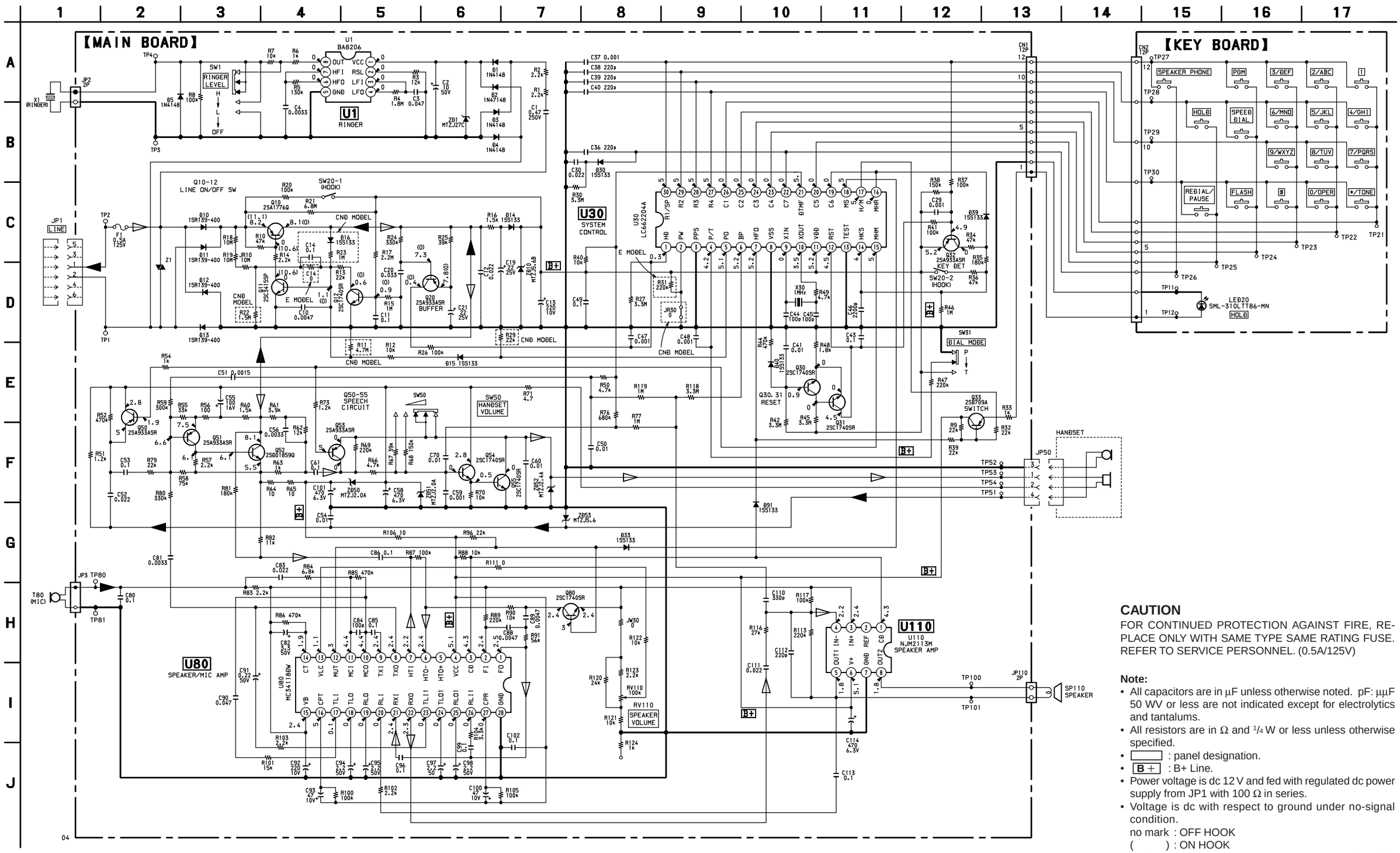
( ) : Canadian Model



Note:

- ○——— : parts extracted from the component side.
- ○- - -○ : Carbon pattern
- ▒▒▒ : Pattern from the side which enables seeing.
- Abbreviation
  CND : Canadian model.

3-2. SCHEMATIC DIAGRAM • Refer to page 9 for IC Block Diagrams.



CAUTION

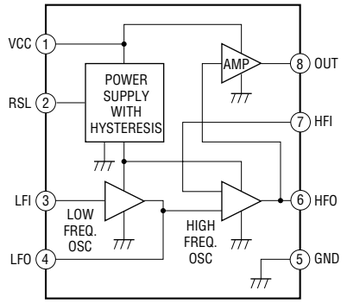
FOR CONTINUED PROTECTION AGAINST FIRE, REPLACE ONLY WITH SAME TYPE SAME RATING FUSE. REFER TO SERVICE PERSONNEL. (0.5A/125V)

Note:

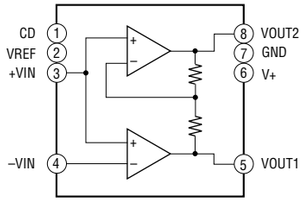
- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ▭ : panel designation.
- B+ : B+ Line.
- Power voltage is dc 12 V and fed with regulated dc power supply from JP1 with 100 Ω in series.
- Voltage is dc with respect to ground under no-signal condition.
  no mark : OFF HOOK
  ( ) : ON HOOK
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  ▷ : RX
  ▶ : TX
- Abbreviation
  CND : Canadian model.

• IC Block Diagrams

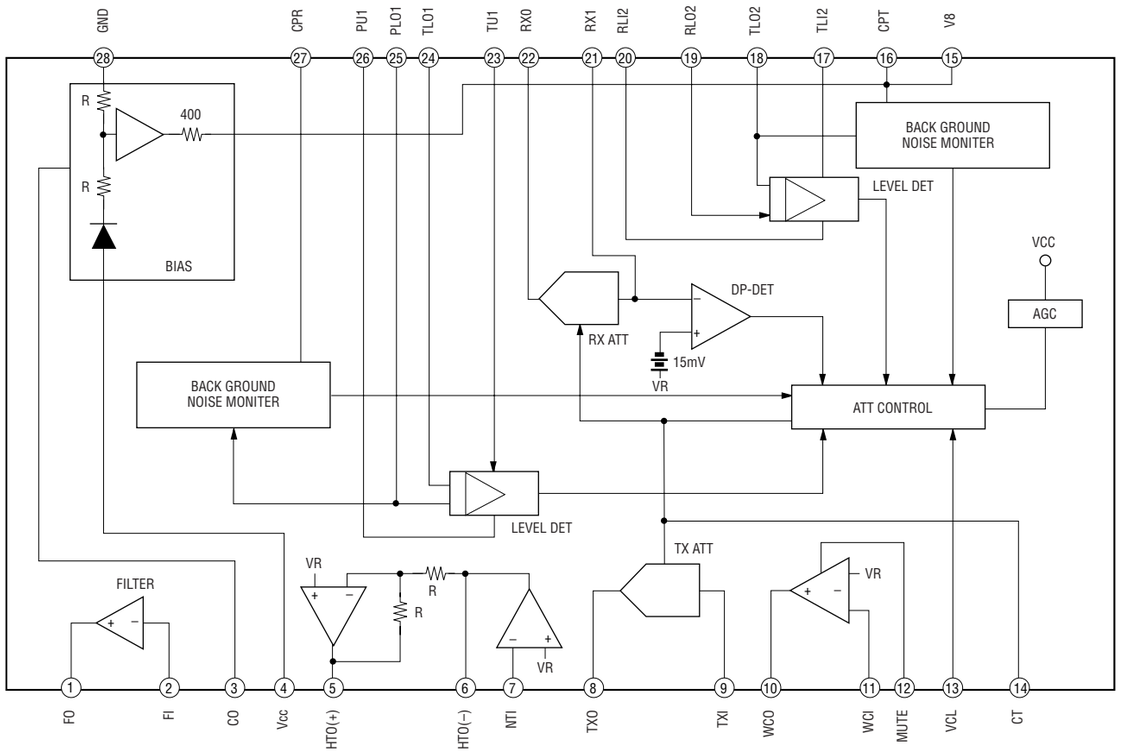
U1 BA8206



U110 NJM2113M

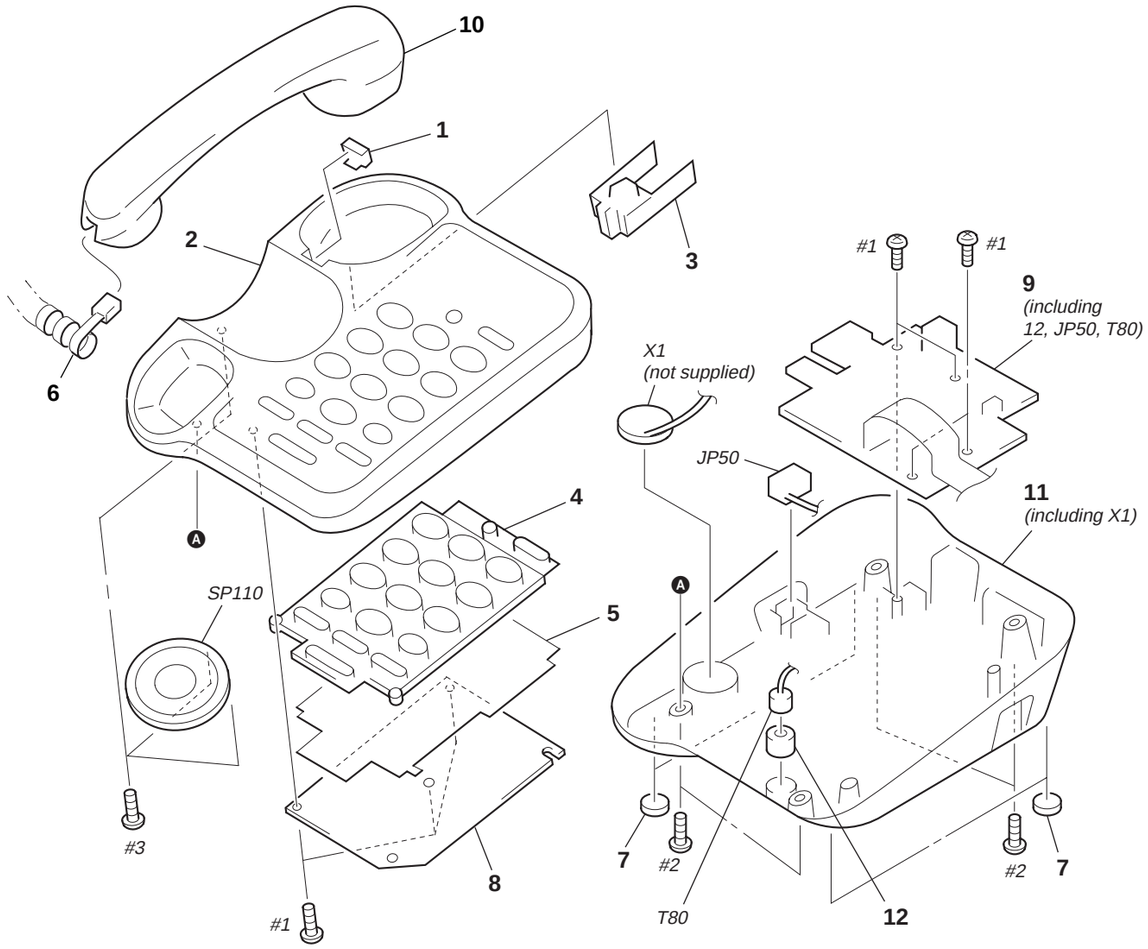


U80 MC34118DW



SECTION 4
EXPLODED VIEW

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Accessories and packing materials and hardware (# mark) list are given in the last of this parts list.



Ref. No.	Part No.	Description	Remark
1	3-025-136-01	HANGER (HANDSET) (GRAY) ... (GRAY,BLUE)	
1	3-025-136-11	HANGER (HANDSET) (CREAM)	
2	3-025-132-01	CABINET (UPPER) (GRAY)	
2	3-025-132-11	CABINET (UPPER) (CREAM)	
2	3-025-132-21	CABINET (UPPER) (BLUE)	
3	3-025-137-01	LEVER (HOOK) (GRAY) ... (GRAY,BLUE)	
3	3-025-137-11	LEVER (HOOK) (CREAM)	
4	3-025-134-01	BUTTON (12 KEY) (GRAY) ... (GRAY,BLUE)	
4	3-025-134-11	BUTTON (12 KEY) (CREAM)	
5	1-771-515-11	SWITCH, RUBBER KEY	
6	1-765-574-11	CORD, CURL (CREAM)	
6	1-775-798-31	CORD, CURL (BLUE)	
6	1-775-798-41	CORD, CURL (GRAY)	
7	3-025-139-01	FOOT, RUBBER	
* 8	1-670-811-11	KEY BOARD	
* 9	A-3672-566-A	MAIN BOARD, COMPLETE (Canadian)	
* 9	A-3672-571-A	MAIN BOARD, COMPLETE (E)	
10	X-3376-493-1	HANDSET ASSY (GRAY)	
10	X-3376-494-1	HANDSET ASSY (CREAM)	
10	X-3376-495-1	HANDSET ASSY (BLUE)	
11	X-3376-481-1	CABINET (LOWER) ASSY (Canadian:GRAY)	
11	X-3376-482-1	CABINET (LOWER) ASSY (E:GRAY)	
11	X-3376-483-1	CABINET (LOWER) ASSY (E:CREAM)	
11	X-3376-484-1	CABINET (LOWER) ASSY (E:BLUE)	
12	3-025-138-01	CAP, MICROPHONE	
JP50	1-785-426-11	JACK, MODULAR (4C) 4P (HANDSET)	
SP110	1-529-151-11	SPEAKER (5.7cm)	
T80	1-542-368-11	MICROPHONE, ELECTRET CONDENSER	

KEY MAIN

SECTION 5
ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ, for example:
  uA.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	1-670-811-11	KEY BOARD			
		**********			
		< DIODE >			
LED20	8-719-072-22	LED SML-310LTT86-MN (HOLD)			
**********					
*	A-3672-566-A	MAIN BOARD, COMPLETE (Canadian)			
*	A-3672-571-A	MAIN BOARD, COMPLETE (E)			
		**********			
	3-025-138-01	CAP, MICROPHONE			
		< CAPACITOR >			
C1	1-136-193-11	FILM	0.47uF	5%	250V
C2	1-126-964-11	ELECT	10uF	20%	50V
C3	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C4	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C10	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C11	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C12	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C13	1-126-934-11	ELECT	220uF	20%	10V
C14	1-163-038-00	CERAMIC CHIP	0.1uF		25V (Canadian)
C14	1-216-295-00	SHORT	0		(E)
C19	1-128-551-11	ELECT	22uF	20%	25V
C20	1-163-989-11	CERAMIC CHIP	0.033uF	10%	25V
C21	1-128-551-11	ELECT	22uF	20%	25V
C29	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C30	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C36	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C37	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C38	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C39	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C40	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C41	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C43	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C44	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C45	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C46	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C47	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C48	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C49	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C50	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C51	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V

Ref. No.	Part No.	Description			Remark
C52	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C53	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C54	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C55	1-126-933-11	ELECT	100uF	20%	16V
C56	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C58	1-126-935-11	ELECT	470uF	20%	6.3V
C59	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C60	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C61	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C70	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
C80	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C81	1-164-182-11	CERAMIC CHIP	0.0033uF	10%	50V
C82	1-126-962-11	ELECT	3.3uF	20%	50V
C83	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C84	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C85	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C86	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C88	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C89	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C90	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C91	1-126-957-11	ELECT	0.22uF	20%	50V
C92	1-126-934-11	ELECT	220uF	20%	10V
C93	1-104-664-11	ELECT	47uF	20%	10V
C94	1-126-961-11	ELECT	2.2uF	20%	50V
C95	1-126-961-11	ELECT	2.2uF	20%	50V
C96	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C97	1-126-961-11	ELECT	2.2uF	20%	50V
C98	1-126-961-11	ELECT	2.2uF	20%	50V
C99	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C100	1-104-664-11	ELECT	47uF	20%	10V
C101	1-126-935-11	ELECT	470uF	20%	6.3V
C102	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C110	1-163-003-11	CERAMIC CHIP	330PF	10%	50V
C111	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C112	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C113	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C114	1-126-935-11	ELECT	470uF	20%	6.3V
		< DIODE >			
D1	8-719-055-76	DIODE 1N4148			
D2	8-719-055-76	DIODE 1N4148			
D3	8-719-055-76	DIODE 1N4148			
D4	8-719-055-76	DIODE 1N4148			
D5	8-719-055-76	DIODE 1N4148			

Ref. No.	Part No.	Description	Remark
D10	8-719-970-02	DIODE 1SR139-400	
D11	8-719-970-02	DIODE 1SR139-400	
D12	8-719-970-02	DIODE 1SR139-400	
D13	8-719-970-02	DIODE 1SR139-400	
D14	8-719-991-33	DIODE 1SS133T-77	
D15	8-719-991-33	DIODE 1SS133T-77	
D16	8-719-991-33	DIODE 1SS133T-77 (Canadian)	
D30	8-719-991-33	DIODE 1SS133T-77	
D33	8-719-991-33	DIODE 1SS133T-77	
D39	8-719-991-33	DIODE 1SS133T-77	
D40	8-719-991-33	DIODE 1SS133T-77	
D91	8-719-991-33	DIODE 1SS133T-77	
		< FUSE >	
F1	1-533-713-11	FUSE (0.5A/125A)	
		< JACK >	
JP1	1-785-419-11	JACK, MODULAR (2C) 6P (LINE)	
JP50	1-785-426-11	JACK, MODULAR (4C) 4P (HANDSET)	
		< CONNECTOR >	
* JP2	1-566-690-11	PLUG, CONNECTOR (2.5MM) 2P	
JP110	1-564-505-11	PLUG, CONNECTOR 2P	
		< JUMPER RESISTOR >	
JR10	1-218-179-11	RES,CHIP 10M 5%	1/10W
JR30	1-216-295-00	SHORT 0	(Canadian)
JW30	1-216-295-00	SHORT 0	
		< TRANSISTOR >	
Q10	8-729-045-65	TRANSISTOR 2SA1776TV2Q	
Q11	8-729-045-48	TRANSISTOR 2SC3415STPP	
Q12	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q20	8-729-026-41	TRANSISTOR 2SA933AS-QRT	
Q30	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q31	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q32	8-729-026-41	TRANSISTOR 2SA933AS-QRT	
Q33	8-729-216-22	TRANSISTOR 2SA1162-G	
Q50	8-729-026-41	TRANSISTOR 2SA933AS-QRT	
Q51	8-729-026-41	TRANSISTOR 2SA933AS-QRT	
Q52	8-729-032-94	TRANSISTOR 2SD1859TV2Q	
Q53	8-729-026-41	TRANSISTOR 2SA933AS-QRT	
Q54	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q55	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q80	8-729-119-78	TRANSISTOR 2SC2785-HFE	
		< RESISTOR >	
R1	1-247-717-11	CARBON 2.2K 5%	1/4W
R2	1-247-717-11	CARBON 2.2K 5%	1/4W
R3	1-216-075-00	METAL CHIP 12K 5%	1/10W
R4	1-216-127-11	METAL CHIP 1.8M 5%	1/10W
R5	1-216-100-00	RES,CHIP 130K 5%	1/10W
R6	1-249-417-11	CARBON 1K 5%	1/4W
R7	1-216-073-00	METAL CHIP 10K 5%	1/10W
R8	1-216-097-00	RES,CHIP 100K 5%	1/10W
R9	1-216-081-00	RES,CHIP 22K 5%	1/10W
R10	1-216-089-00	RES,CHIP 47K 5%	1/10W

Ref. No.	Part No.	Description			Remark
R11	1-208-291-11	RES,CHIP	4.7M	5%	1/10W (Canadian)
R12	1-249-429-11	CARBON	10K	5%	1/4W
R13	1-216-081-00	RES,CHIP	22K	5%	1/10W
R14	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R15	1-216-121-00	RES,CHIP	1M	5%	1/10W
R16	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R17	1-216-278-11	RES,CHIP	2.2M	5%	1/8W
R18	1-218-179-11	METAL CHIP	10M	5%	1/10W
R19	1-218-179-11	METAL CHIP	10M	5%	1/10W
R20	1-249-469-11	CARBON	100K	5%	1/4W
R21	1-216-290-00	RES,CHIP	6.8M	5%	1/8W
R22	1-216-125-00	RES,CHIP	1.5M	5%	1/10W (Canadian)
R23	1-216-121-00	RES,CHIP	1M	5%	1/10W (Canadian)
R24	1-247-891-00	CARBON	330K	5%	1/4W
R25	1-249-436-11	CARBON	39K	5%	1/4W
R26	1-249-441-11	CARBON	100K	5%	1/4W
R27	1-216-133-00	RES,CHIP	3.3M	5%	1/10W
R29	1-216-081-00	RES,CHIP	22K	5%	1/10W (Canadian)
R30	1-216-133-00	RES,CHIP	3.3M	5%	1/10W
R31	1-216-105-00	RES,CHIP	220K	5%	1/10W (E)
R32	1-216-081-00	RES,CHIP	22K	5%	1/10W
R33	1-216-049-11	RES,CHIP	1K	5%	1/10W
R34	1-216-089-00	RES,CHIP	47K	5%	1/10W
R35	1-216-252-00	RES,CHIP	180K	5%	1/8W
R36	1-216-238-00	RES,CHIP	47K	5%	1/8W
R37	1-249-441-11	CARBON	100K	5%	1/4W
R38	1-216-101-00	RES,CHIP	150K	5%	1/10W
R39	1-247-863-11	CARBON	22K	5%	1/4W
R40	1-247-855-11	CARBON	10K	5%	1/4W
R41	1-216-097-00	RES,CHIP	100K	5%	1/10W
R42	1-216-133-00	RES,CHIP	3.3M	5%	1/10W
R44	1-216-113-00	RES,CHIP	470K	5%	1/10W
R45	1-216-133-00	METAL CHIP	3.3M	5%	1/10W
R46	1-216-121-00	RES,CHIP	1M	5%	1/10W
R47	1-247-887-00	CARBON	220K	5%	1/4W
R48	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R49	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R50	1-216-065-00	RES,CHIP	4.7K	5%	1/10W
R51	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R52	1-216-113-00	METAL CHIP	470K	5%	1/10W
R54	1-249-417-11	CARBON	1K	5%	1/4W
R55	1-216-085-00	RES,CHIP	33K	5%	1/10W
R56	1-216-025-00	RES,CHIP	100	5%	1/10W
R57	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R58	1-216-094-00	RES,CHIP	75K	5%	1/10W
R59	1-216-108-00	RES,CHIP	300K	5%	1/10W
R60	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R61	1-249-424-11	CARBON	3.9K	5%	1/4W
R62	1-216-075-00	METAL CHIP	12K	5%	1/10W
R63	1-249-417-11	CARBON	1K	5%	1/4W
R64	1-247-688-11	CARBON	10	5%	1/4W
R65	1-247-688-11	CARBON	10	5%	1/4W
R66	1-216-065-00	RES,CHIP	4.7K	5%	1/10W

MAIN

Ref. No.	Part No.	Description			Remark
R67	1-216-689-11	RES,CHIP	39K	0.5%	1/10W
R68	1-216-101-00	METAL CHIP	150K	5%	1/10W
R69	1-216-105-00	RES,CHIP	220K	5%	1/10W
R70	1-216-073-00	METAL CHIP	10K	5%	1/10W
R71	1-216-308-00	METAL CHIP	4.7	5%	1/10W
R73	1-216-051-00	METAL CHIP	1.2K	5%	1/10W
R76	1-216-266-00	RES,CHIP	680K	5%	1/8W
R77	1-216-270-00	RES,CHIP	1M	5%	1/8W
R79	1-216-230-00	RES,CHIP	22K	5%	1/8W
R80	1-247-891-00	CARBON	330K	5%	1/4W
R81	1-247-885-00	CARBON	180K	5%	1/4W
R82	1-247-856-00	CARBON	11K	5%	1/4W
R83	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R84	1-216-069-00	METAL CHIP	6.8K	5%	1/10W
R85	1-216-113-00	METAL CHIP	470K	5%	1/10W
R86	1-216-113-00	METAL CHIP	470K	5%	1/10W
R87	1-216-097-00	RES,CHIP	100K	5%	1/10W
R88	1-216-073-00	METAL CHIP	10K	5%	1/10W
R89	1-247-887-00	CARBON	220K	5%	1/4W
R90	1-216-073-00	METAL CHIP	10K	5%	1/10W
R91	1-216-091-00	METAL CHIP	56K	5%	1/10W
R96	1-216-230-00	RES,CHIP	22K	5%	1/8W
R100	1-247-879-11	CARBON	100K	5%	1/4W
R101	1-216-226-00	RES,CHIP	15K	5%	1/8W
R102	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R103	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R104	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R105	1-216-097-00	RES,CHIP	100K	5%	1/10W
R106	1-216-001-00	RES,CHIP	10	5%	1/10W
R111	1-216-296-00	SHORT	0		
R113	1-216-105-00	RES,CHIP	220K	5%	1/10W
R116	1-216-083-00	RES,CHIP	27K	5%	1/10W
R117	1-216-097-00	RES,CHIP	100K	5%	1/10W
R118	1-216-133-00	METAL CHIP	3.3M	5%	1/10W
R119	1-216-121-00	RES,CHIP	1M	5%	1/10W
R120	1-216-231-00	RES,CHIP	24K	5%	1/8W
R121	1-216-073-00	METAL CHIP	10K	5%	1/10W
R122	1-216-222-00	RES,CHIP	10K	5%	1/8W
R123	1-216-206-00	RES,CHIP	2.2K	5%	1/8W
R124	1-216-049-11	RES,CHIP	1K	5%	1/10W
		< VARIABLE RESISTOR >			
RV110	1-225-686-11	RES, VAR, SLIDE	100K (SPEAKER VOLUME)		
		< SWITCH >			
SW1	1-692-207-21	SWITCH, SLIDE (RINGER LEVEL)			
SW20	1-692-494-21	SWITCH, HOOK (HOOK)			
SW31	1-572-903-51	SWITCH, SLIDE (DIAL MODE)			
SW50	1-692-207-21	SWITCH, SLIDE (HANDSET VOLUME)			
		< MICROPHONE >			
T80	1-542-368-11	MICROPHONE, ELECTRET CONDENSER			

Ref. No.	Part No.	Description	Remark
		< IC >	
U1	8-759-081-73	IC BA8206	
U30	8-759-559-34	IC LC662204A-4K56	
U80	8-759-030-78	IC MC34118DW-R2	
U110	8-759-291-01	IC NJM2113M-TE2	
		< VIBRATOR >	
X30	1-577-306-11	VIBRATOR, CERAMIC (1MHz)	
		< DISCHARGE GAP >	
Z1	1-517-224-11	GAP, DISCHARGE	
		< DIODE >	
ZD1	8-719-983-24	DIODE MTZJ-T-77-27C	
ZD10	8-719-109-89	DIODE RD5.6ESB2	
ZD50	8-719-109-50	DIODE RD2.0ES-B1	
ZD51	8-719-109-50	DIODE RD2.0ES-B1	
ZD52	8-719-982-99	DIODE MTZJ-T-77-2.4A	
ZD53	8-719-109-89	DIODE RD5.6ESB2	

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MISCELLANEOUS
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5	1-771-515-11	SWITCH, RUBBER KEY	
6	1-765-574-11	CORD, CURL (CREAM)	
6	1-775-798-31	CORD, CURL (BLUE)	
6	1-775-798-41	CORD, CURL (GRAY)	
SP110	1-529-151-11	SPEAKER (5.7cm)	

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ACCESSORIES & PACKING MATERIALS
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	1-696-453-11	CORD (WITH MODULAR PLUG) (LINE) (15cm) (Canadian)
	1-696-454-11	CORD (WITH MODULAR PLUG) (LINE) (215cm)
	3-025-324-01	CASE, WALL HOOK (Canadian)
	3-864-044-21	MANUAL, INSTRUCTION (ENGLISH,CHINESE) (E)
	3-864-044-31	MANUAL, INSTRUCTION (SPANISH) (E)
	3-864-044-41	MANUAL, INSTRUCTION (ENGLISH,FRENCH) (Canadian)

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HARDWARE LIST
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#1	7-685-533-19	SCREW +BTP 2.6X6 TYPE2 N-S
#2	7-685-547-14	SCREW +BTP 3X10 TYPE2 N-S...(CREAM)
#2	7-685-547-19	SCREW +BTP 3X10 TYPE2 N-S...(GRAY,BLUE)
#3	7-685-903-21	SCREW +PTPWH 3X8 (TYPE2)

9-926-005-11

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Personal & Mobile Communication Company

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